

AMENDMENT UNDER 37 C.F.R. § 1.111
US APPLICATION NO. 10/712,998
ATTORNEY DOCKET NO. Q78497

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A flame retardant ethylene family resin composite comprising a flame retardant resin composite having a specific gravity of 1.14 or less, as a product of a process comprising the steps of:

preparing a flame retardant agent comprising magnesium hydroxide and stearic acid adhering thereto;

providing a core element comprising the flame retardant agent;

surface-treating the core element with a polyorganosiloxane, thereby preparing a particle element having the core element coated with a polyorganosilane;

preparing a flame retardant particle comprising the particle element;

mixing an ethylene vinyl acetate copolymer (EVA) and an ethylene ethyl acrylate copolymer (EEA), thereby preparing an ethylene family copolymer; and

preparing the flame retardant resin composite comprising a dispersion medium comprising the ethylene family copolymer, and a system of flame retardant particles evenly dispersed in the dispersion medium -an ethylene family copolymer, each respectively having a flame retardant agent including magnesium hydroxide and polyorganosilane.

2. (canceled).

3. (canceled).

4. (currently amended): ~~A~~ The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 1, wherein ~~each~~ the flame retardant particle comprises ~~polyorganosiloxane-treated magnesium hydroxide, and~~ an assisting flame retardant agent provided about the flame retardant agent, the core element, or the particle element.

5. (currently amended): ~~A~~ The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 4, wherein the flame retardant resin composite ~~comprises~~ contains ~~a blend of 40 to 50 parts in~~ by weight of the particle element ~~the particle~~ ~~polyorganosiloxane-treated magnesium hydroxide~~ and 2 to 10 parts ~~in~~ by weight of the assisting flame retardant agent, to 100 parts ~~in~~ by weight of the ethylene family copolymer.

6. (currently amended): ~~A~~ The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 5, wherein the ethylene family copolymer comprises a mixture of 20 to 40 parts ~~in~~ by weight of the ethylene vinyl acetate copolymer (EVA) and 80 to 60 parts ~~in~~ by weight of the ethylene ethyl acrylate copolymer (EEA).

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7. (currently amended): A The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 4, wherein the assisting flame retardant agent comprises an aluminium hydroxide composite.

8. (currently amended): A The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 7, wherein the aluminium hydroxide composite comprises ammonium molybdate-treated aluminium hydroxide.

9. (currently amended): A The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 4, wherein the assisting flame retardant agent comprises silicon powder.

10. (currently amended): A The flame retardant ethylene family resin composite as claimed in ~~according to~~ claim 5, wherein the flame retardant resin composite further comprises ~~0.5 to 5.0~~ 2 to 5 parts ~~in~~ by weight of stearic acid ~~a process assisting agent as an additive~~.

11. (canceled).